**DESIGN DATA**

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments

- **WS**: 35 psf on sound wall
- **LS**: Varied surcharge on level ground surface
- **EQE**: Monotonic-Double Method
- **Ku** = 0.3
- **Soil**: μ = 34°
- **Reinforced Concrete**: f_c = 3600 psi, f_y = 60,000 psi

Load Combinations and Limit States

- Service I: Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE
- Strength I: Q = aDC + BEV + 1.50EH + 1.40WS
- Strength II: Q = aDC + BEV + 1.50EH + 1.75LS
- Strength III: Q = aDC + BEV + 1.50EH + 1.00WS + 0.30WS
- Service II: Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS

**Soil and Structure Components Inertia.** Seismic Earth Pressure

1. Force Effects
2. 1.75 or 2.00, whichever controls design
3. Good Load of Structure Components
4. Earth Pressure
5. Line Load Surcharge
6. Weight of Structure Components
7. Soil Inertia ignored for design
8. Wind Load on Sound Wall and Barrier

**NOTES:**

1. For sound wall and retaining wall architectural finish or texture, see details elsewhere in Project Plans.
2. For details not shown and drainage notes, see "SOUND WALL - MASONRY BLOCK ON RETAINING WALL" sheet.
3. Footing cover, 1'-6" minimum.
4. For sound wall reinforcement, see "SOUND WALL - MASONRY BLOCK ON RETAINING WALL" sheet.

**WALL OFFSET**

Values for offsetting forms to be determined by the engineer.

**DETAIL A**

1'-0" = 1'-0"